Mid-Continent Region Production United States



P.O. Box 552 Midland, Texas 79702 Telephone 915/682-1626

June 6, 1990

Mr. David Catanach Energy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

RE: Request for Exception to Rule 303-A Downhole Commingling Marathon Oil Company W. S. Marshall "B" Well No. 3 Unit "K", 1,980' FSL and 1,980' FWL Section 27, T-21-S, R-37-E Tubb and Drinkard Formations Lea County, New Mexico

Dear Mr. Catanach,

Marathon Oil Company requests administrative approval for an exception to Rule 303-A to permit the downhole commingling of production in the subject well from the Tubb and Drinkard pools in Lea County, New Mexico.

Currently, the well is equipped as a dual producer with the Tubb flowing up the annulus and the Drinkard flowing up the tubing. A workover was performed in December, 1989, where both zones had perforations added and were stimulated with acid. Based on the swab test results, the Tubb and Drinkard have the combined potential to produce up to 40 BOPD. This well currently has no artificial lift system, and after economic evaluation on an individual zone basis, artificial lift can not be justified. However, if the two producing zones are allowed to be downhole commingled, the installation of an artificial lift system becomes economically justified.

Therefore, in the interest of conservation and prevention of waste, we propose to downhole commingle the Tubb and Drinkard zones and place the well on artificial lift. Enclosed is pertinent data supporting this application as outlined in Rule 303-C. If additional information is necessary, please contact Donald Price at (915) 682-8258.

Sincerely,

William D Adelmen

William D. Holmes Midland Operations Superintendent

WDH/DGP/099.274/sk

A subsidiary of USX Corporation

An Equal Opportunity Employer

- (a) Marathon Oil CompanyP. O. Box 552Midland, Texas 79702
- (b) W. S. Marshall "B" Well No. 3 Unit "K", 1,980' FSL and 1,980' FWL Section 27, T-21-S, R-37-E Lea County, New Mexico Commingled Zones: Tubb and Drinkard
- (c) Plats (2) of area attached.
- (d) The Form C-116 for the Tubb and Drinkard zones are attached. Also attached are the swab test results showing liquid production from each zone after recompletion. These values will be used to allocate the liquid production for each zone.
- (e) Production decline curves for both the Tubb and Drinkard zones are attached.
- (f) BHP Survey's recorded with Amerada bombs are attached. Tubb: 488 psig Drinkard: 430 psig
- (g) Marathon Oil Company has commingled these fluids at the surface and has encountered no incompatibility problems. Also, there are waterflood projects in the area which include the Tubb and Drinkard. Therefore, no reservoir damage will result from downhole commingling.
- (h) As previously stated in the body of the letter, if the downhole commingling is approved, a artificial lift system can be installed on the well resulting in an extended economic life of the well.

The value of the produced hydrocarbons should not be altered by commingling production. Therefore, the same market price should be obtained as if both zones were produced individually.

(i) Production from latest GOR test shows:

	GAS (MCFPD)
Tubb	7
Drinkard	<u>37</u>
	44

Production estimates from swab tests show:

	OIL (BOPD)		WATER (BWPD)
Tubb Drinkard	10.0 30.0	: `	50.0 <u>24.0</u>
	40.0		74.0

Therefore the allocated percentages should be:

	0IL (%)	<u>GAS (%)</u>	WATER (%)
Tubb Drinkard	25 75	16 84	68 _32
	100	100	100

- (j) Ownership of the two pools to be commingled is common and correlative rights will not be violated.
- (k) By copy of this letter, we are notifying all offset operators of the proposed commingling by certified mail. (See attached address list).

Submit 3 Copies to Appropriate District Office	State of New Me Energy, Minerals and Natural Re		Form C-103 Revised 1-1-89		
DISTRICT I P.O. Box 1980, Hobbs, NM 88240	P.O. Box 2088		Well API NO. 30-025-06820		
DISTRICT II P.O. Drawer DD, Artesia, NM 88210 DISTRICT III	Santa Fe, New Mexico	87504-2088	5. Indicate Type of Lease STATE FEE X		
1000 Rio Brazos Rd., Aztec, NM 87410			6. State Oil & Gas Lease No.		
SUNDRY NOTI (DO NOT USE THIS FORM FOR PRO DIFFERENT RESER (FORM C-	7. Lease Name or Unit Agreement Name				
1. Type of Well: OL GAS WELL WELL	Tubb- onner Drink	-Gas kard-Gas			
2. Name of Operator Marathon Oil Company			8. Well No. 3		
3. Address of Operator P. O, Bóx 552, Midlan	d, Texas 79702		9. Poot name of Wildcat Drinkard **		
4. Well Location Unit Letter $\underline{K} : 1,98$		Line and1,98)' Feet From The <u>Vest</u> Line		
Section 27	Township 215 Raz	nge 37E DF, RKB, RT, GR, etc.)	NMPM Lea County		
'/////////////////////////////////////	3,410' (
NOTICE OF INT	Appropriate Box to Indicate N ENTION TO:	-	SEQUENT REPORT OF:		
		REMEDIAL WORK			
PULL OR ALTER CASING		CASING TEST AND CE			
OTHER: Commingle	X	OTHER:			

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12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Request authorization to commingle the Tubb and Drinkard.

** (Tubb and Drinkard)

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R-37E

MARATHON OIL COMPANY

W. S. MARSHALL "B" NO. 3 1980' FWL & 1980' FSL, SEC. 27, T-21-S, R-37-E → ✿ SUBJECT WELL Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator			•1 0		Lease	C Massa	shall "B"		Well No. 3
	Mara	athon 0	il Compa	inv	₩.	5. Mars	snall B.		J
Unit Letter K	Section 27	T	ownship 21-Sc	outh	Range 37-	East	NM	County Le	ea
Actual Footage Loca 1,980 '		Sou	 th		1,980'			Uest	
Ground level Elev.	feet from t	Producing Fo	mation	line and	Pool		leet in	om the West	line Dedicated Acreage:
3.410'									-
1. Outline	the acreage	dedicated to	the subject we	il by colored per	cil or hachure	marks on the	plat below.		Acres
2. If more	e than one les	ase is dedicat	ed to the well.	outline each and	identify the ov	vnership there	of (both as to wo	rking interest and	royalty).
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Instructions: During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division. Conclusion must be associated in MCF measured at a measured at a measured base of 15 025 ratio and a temperature of 60° F Conclusion. Conclusion when authorized by the Division. Conclusion and a temperature of 60° F J. R. Jenkins Hobbs Production Sup't.	W. S. Marshall "B" 3 K 27 21 37 5-25-90 F 53 Gas 24 0 0 7 0 7 1	U S T R TEST 5 SIZE PRESS ABLE HOURS BBLS. OIL BBLS. MC.F. CL	VELL LOCATION	-		Operator Pool County	GAS - OIL RATIO TEST	DISTRICTIN 1000 Rio Brazos Rd., Aztec, NM 87410	D, Artesia, NM 88210 P.O. Box 2088	P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION	State of New Mexico Energy, Minerals and Natural Resources Department
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During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division. Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60. Report casing pressure in lieu of tubing pressure for any well producing through casing.	Instructions:	W. S. Marshall "B"	LEASE NAME	Address P. O. Box 552, Midland,	Operator Marathon Oil Company		P.O. Drawer DD, Artesia, NM 88210 DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410	P.O. Box 1980, Hobbs, NM 88240 DISTRICT II	Submit 2 copies to Appropriate District Office.
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	above information knowledge and belief	0	NG TEST OIL BBLS	0					
Production (915) Teleph	ormation and beli	37	GAS	Special				·	Forn Revi
ction Sup't. (915) 682-1626 Telephone No.	t is true and ef.	 ·	GAS - OIL PATIO CU.FT/BBL	×				:	Form C-116 Revised 1/1/89

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MARATHON OIL COMPANY W. S. MARSHALL B # 3 TUBB DATE: 1-3-90 PERFORATIONS: 5914 - 6198 STATIC BOTTOM HOLE PRESSURE

DEPTH	PRESSURE (PSIG)	<u> </u>	<u> </u>	GRADIENT
8,	412#			
3556'	456#	44#	3550'	.012
4556'	467#	11#	1000'	.011
50 56'	475#	8#	500'	.016
5556'	481#	6#	500'	.012
5806'	485#	4#	250'	.016
6056	488#	3#	250'	.012

This well is a dual Tubb and Drinkard. Bottomhole pressure bomb was frun to mid perfs of the Tubb at 6056'. At this time a plug was in on-off tool at 6252' and a sliding sleeve at 6245' was open.

RECEIVED JAH 5 1990 Engineering Dnt Micliano District Midland, Texas

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INTRACOMPANY CORRESPONDENCE

то .	J.R. Jenkins	_ DATE	4/3/90
OFFICE_	Midland, Texas	FROM	M.L. Greenough
	24 Hour Shut-In Bottom Hole Pressure		Hobbs, New Mexico
;	(USE THIS LINE FOR FILE REFERENCE ON SUBJECT) W. S. Marshall "B" Well No. 3 Drinkard Gas Zone		White Sell rough

Lea County, New Mexico

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This well was shut-in for 24 hours (4/2-3/90) and a measure of the static bottom hole pressure obtained with an Amerada RPG-3 gauge fitted with a 2150# pressure element.

Results are presented in the table below.

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	DEPTH (FEET)	PRESSURE (PSIG)		מ 🛆 ו	GRADIENT
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	4000	391	18	2000	0.0090
	5000	402	11	1000	0.0110
	5500	408	6	500	0.0120
	6000	414	6	500	0.0120
	8250	416	2	250	0.0080
MID-PERF.	6434	430	14	184	0.0761

OFFSET OPERATORS

Exxon Co., U.S.A. P. O. **B**ox 1600 Midland, Texas 79702-1600

Chevron U.S.A., Inc. Hobbs Production Division Office 1923 N. Dal Paso Hobbs, New Mexico 88240

Conoco, Inc. P. O. Box 1959 Midland, Texas 79702

Mobil Exploration and Producing U.S., Inc. 901 E. Bender Blvd. Hobbs, New Mexico 88240



SWAB TEST RESULTS

DATE 01-0	2-90	WELL V.	S. Mars	shall B	No.	3		
	1 /T L L	C Duringland	/ (س.	TAINTY	Lea		STATE_	<u>NM</u>
AFE NO.	4718	EST. AF	E COST\$	52.	000	W.I.%_	100	
AFE NO DC:\$	cc	:\$	<u></u>	T	c:\$	41,321		
TOTAL DAYS	: <u>17</u>	COMPL. 0	R W.O. I	DAYS:	6	TESTING	DAYS:_	11
CONTRACTOR	.:			RIG O	R P.U.	NO		
CONTRACTOR PROD. PRIOR	. WO: B	OPD :	BWPD:	MCFG	:	GOR DATE		
HISTORY:								
	BO & 20 E Between s csg press TL 887 E DC \$592	wab runs increas W TR	tbg pro ed to 2 77 BO,	ess incr 00 psig. 284 BW	eased	to 20 ps	600' FS ig. Fi	nal
12-31-89	SITP = 32 psig in 1 & 20 BW. Between s	hr. Ma Startin wab runs	de 12 s g FL 54 tbg pr	wab runs 00' FS.	in 9 Final eased	<u>1/2 hrs</u> . FL 5600	Rec'd 'FS.	<u>4 BC</u>

TC \$41,321

DATE 01-19-90 WELL W. S. Marshall B #3

DC \$620

& Drinkard	COUNTY Le	ea	STATE NM
EST. AFE COSTS	52,000	W.I.3	
CC:\$	TC	\$ 51.846	; ;
ations and Acid	lize Tubb & Di	rinkard	
COMPL. OR W.O.	DAYS: 9	TESTING	DAYS: 20
BOPD: BWPD:	MCFG:	GOR DATE	
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	& Drinkard EST. AFE COSTS CC:S cations and Acid COMPL. OR W.O.	EST. AFE COST\$ 52,000 CC:\$ TC cations and Acidize Tubb & Dr COMPL. OR W.O. DAYS: 9 RIG OR P.U	& DrinkardCOUNTYLeaEST. AFE COST\$52,000W.I.3CC:\$TC:\$51.846cations and Acidize Tubb & DrinkardCOMPL. OR W.O. DAYS:9TESTINGRIG OR P.U. NO

DRINKARD

TUBB

10 BOPD

50 BWPD

30 BOPD 24 BWPD

SITP-300 psig. SICP-440 psig. Made 27 swab runs in 11 hrs. Rec'd 14 BO, 11 BW. IFL 6200'. FFL 5000' & scattered. Final CP 500 psig. Left well flowing to separator overnight w/70 psig FTP.

PRESENT OPERATIONS: Swabbing

TOTAL LOAD 1106 BW TOTAL RECOVERY 142 BO, 363 BW

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ENERGY AND MINERALS DEPARTMENT SIVISION

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

'90 JUN 18 AM 10 04

6-12-90

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

GARREY CARRUTHERS

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

RE: Proposed: MC DHC NSL NSP SWD WFX PMX

Gentlemen:

I have examined the application for the:

27-21-37 Marath Lease & Well No. Unit Operator

and my recommendations are as follows: 01

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Yours very truly,

Jerry Sextón Supervisor, District 1

/ed